Course of Study Process Engineering (Study Cohort w23)

Thesis Compulsory ation Compulsory Focus Compulsory Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Sample course plan D Master Process Engineering (VTMS) Dual study program Interdisciplinary complement **Specialisation Process Engineering** 1 Particle Technology and Solid Matter Process Technology Advanced Chemical Reaction Engineering Process Design Project Master thesis (dual study program) Process Design Project Advanced Particle Technology II VL 2 Chemical Reaction Engineering VL 2 РК 6 2 Advanced Particle Technology II PBL 1 Chemical Reaction Engineering ΗÜ 2 3 PR 3 Experimental Course Particle Technology Experimental Course Chemical Engineering PR 2 4 5 6 7 Transport Processes Bioprocess and Biosystems Engineering Practical module 3 (dual study program, Master's degree) Heat & Mass Transfer in Process Engineering VL 2 Bioreactor Design and Operation VL 2 Practical term 3 0 8 Multiphase Flows VL 2 Biosystems Engineering VL 2 9 Reactor Design Using Local Transport Processes PBI 2 PBI 1 Bioreactors and Biosystems Engineering 10 11 12 13 Process and Plant Engineering II Practical module 2 (dual study program, Master's degree) Process and Plant Engineering II Practical term 2 0 VL 2 14 Process and Plant Engineering II НŪ 2 15 16 17 Separation Technologies for Life Sciences Chromatographic Separation Processes VI 2 18 Unit Operations for Bio-Related Systems VL 2 19 Fluid Mechanics in Process Engineering Unit Operations for Bio-Related Systems PBL 2 Fluid Mechanics II VL 2 20 Applications of Fluid Mechanics in Process Engineering НÜ 2 21 22 23 Applied optimization in energy and process engineering Process Modeling in Water Technology IV 2 Process Modeling in Drinking Water Treatment Applied optimization in energy and process engineering PBL 2 24 Applied optimization in energy and process engineering GÜ 2 Process Modelling of Wastewater Treatment PBL 2 25 Practical module 1 (dual study program, Master's degree) Practical term 1 0 26 27 28 29 Process Simulation and Process Safety Synthesis and Design of Industrial Processes CAPE with Computer Exercises IV 3 Synthesis and Design of Industrial Facilities VL 1 30 Methods of Process Safety and Dangerous Substances Industrial Plant Design and Economics PBL 3 VL 2 31 32 33 34 35 Research Project Process Engineering Research Project in Process Engineering PBL 6 36 37 38 39 40 Business & Management (from catalogue) - 6LP Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.